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R. Klauser, M. Oshima, H. Sugahara, H. Ando, H. Tariel, Y. Murata and H. Kato, Observation of interface plasmon excitation in photoemission spectroscopy from the heterostructures Cu/RbF/GaAs(100) and Cu/RbF/Ge(100) 255 (1991) L557

H. Qu, J. Kanski, P.O.Nilsson and U.O. Karlsson, Surface electron structure of InP(110) studied with angle-resolved photoelectron spectroscopy 255 (1991) 237

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F. Zaera, Mechanism for the decomposition of iron pentacarbonyl on Pt(111): evidence for iron tetracarbonyl and iron tricarbonyl intermediates 255 (1991) 280

A. Cassuto, J. Kiss and J.M. White, On the orientation of low temperature π-bonded ethylene on Pt(111) 255 (1991) 289

S.K. Jo and J.M. White, Surface photochemistry of CH_3Cl: dissociative electron attachment through D_2O spacer layers 255 (1991) 321

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S. Clarke, M.R. Wilby and D.D. Vvedensky, Theory of homoepitaxy on Si(001). I. Kinetics during growth 255 (1991) 91

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D.V. Chakarov, Z.C. Ying and W. Ho, Correlation of electronic and optical transitions: $Mo(CO)_6$ adsorbed on clean and K-preadsorbed Si(111)7 × 7 255 (1991) L550

W. Święch and E. Bauer, The growth of Si on Si(100): a video-LEEM study 255 (1991) 219

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